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USSN 10/596,024 Proposed claims (Examiner Vinod Kumar; Art Unit 1638)

Claim 25 (cancelled)

Claim 26 (cancelled)

Claim 27 (cancelled)

Claim 28 (cancelled)

Claim 29 (currently amended) A cell comprising a heterologous nucleic acid molecule, the heterologous nucleic acid molecule comprising a nucleotide sequence encoding a fatty acid elongase, the fatty acid elongase comprising the amino acid sequence set forth in SEQ ID NO: 24 and wherein the cell produces an increase in proportion of erucic acid when compared to a control cell lacking the heterologous nucleic acid sequence.

Claim 30 (previously presented) The cell according to claim 29, wherein said cell is a fungal cell or a yeast cell.

Claim 31 (previously presented) The cell according to claim 29, wherein said cell is a plant cell.

Claim 32 (previously presented) The cell according to claim 29, wherein said cell is a plant seed cell.

Claim 33 (cancelled)

Claim 34 (cancelled)

Claim 35 (previously presented) A seed comprising a plurality of cells as defined in claim 32.

Claim 36 (previously presented) A plant comprising a plurality of cells as defined in claim 31.

Claim 37 (previously presented) The plant according to claim 36, wherein said plant is a dicotyledon.

Claim 38 (previously presented) The plant according to claim 36, wherein said plant is a member of Brassicaceae, Limnaceae, Tropealaceae or Simmondsia family.

Claim 39 (previously presented) The plant according to claim 36, wherein said plant is member of genus Brassica.

Claim 40 (previously presented) The plant according to claim 36, wherein said plant is flax.

Claim 41 (currently amended) A method of increasing erucic acid C₂₂ or greater fatty acid proportion in a plant-derived oil comprising cultivating a plant as defined in claim 36, and then extracting the plant-derived oil therefrom, the oil having increased erucic acid C₂₂ or greater

fatty acid proportion when compared to a control plant lacking the heterologous nucleic acid molecule.

Claim 42 (cancelled)

Claim 43 (previously presented) The method according to claim 42, wherein the plant is flax or a member of genus Brassica.